

**PATENT APPLICATION TRANSMITTAL LETTER**  
 (Large Entity)

JG713 U.S. PTO

Docket No.

118/35789

09/10/99

**TO THE ASSISTANT COMMISSIONER FOR PATENTS**

Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

**RAYMOND F. COBB and MICHAEL B. LUNTZ**

**For: CARRIER INJECTING WAVEFORM-BASED MODULATION SCHEME FOR REDUCING SATELLITE  
 TRANSPONDER POWER REQUIREMENTS AND EARTH TERMINAL ANTENNA SIZE**

Enclosed are:

- Certificate of Mailing with Express Mail Mailing Label No. EM403177334US
- 9 sheets of drawings.
- A certified copy of a application.
- Declaration  Signed.  Unsigned.
- Power of Attorney
- Information Disclosure Statement
- Preliminary Amendment
- Other: ASSIGNMENT, PTO 1595 AND RECORDING FEE OF \$40, CLEAN COPIES OF PAGES 5, 6, AND 21 containing changes made and initialled by the inventors on the date of execution

**CLAIMS AS FILED**

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	26	- 20 =	6	x \$18.00	\$108.00
Indep. Claims	4	- 3 =	1	x \$78.00	\$78.00
Multiple Dependent Claims (check if applicable)	<input type="checkbox"/>				\$0.00
				BASIC FEE	\$760.00
				TOTAL FILING FEE	\$946.00

- A check in the amount of \$946.00 to cover the filing fee is enclosed.
- The Commissioner is hereby authorized to charge and credit Deposit Account No. 23-0385 as described below. A duplicate copy of this sheet is enclosed.

- Charge the amount of as filing fee.
- Credit any overpayment.
- Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: 10 SEPTEMBER 1999



Signature

CHARLES E. WANDS  
 REG. NO. 25,649  
 5240 BABCOCK STREET NE, STE. 211  
 PALM BAY, FLORIDA 32905

cc:

118/35789

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): **RAYMOND F. COBB and MICHAEL B. LUNTZ**

Invention: **CARRIER INJECTING WAVEFORM-BASED MODULATION SCHEME FOR REDUCING SATELLITE TRANSPONDER POWER REQUIREMENTS AND EARTH TERMINAL ANTENNA SIZE**

Law Offices of Charles E. Wands  
5240 Babcock Street NE, Suite 211  
Palm Bay, Florida 32905

TO WHOM IT MAY CONCERN:

Be it known that I, **RAYMOND F. COBB**, resident of the United States of America, residing at 202 Flamingo Lane, Melbourne Beach, Florida 32951-2108, and I, **MICHAEL B. LUNTZ**, resident of the United States of America, residing at 11370 South Tropical Trail, Merritt Island, Florida 32952 have invented new and useful improvements in **CARRIER INJECTING WAVEFORM-BASED MODULATION SCHEME FOR REDUCING SATELLITE TRANSPONDER POWER REQUIREMENTS AND EARTH TERMINAL ANTENNA SIZE**, of which the following is a specification.

I hereby certify that this document is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. Section 1.10 and addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.  
Date: 10 SEPT 1999 By: J. Wilas

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